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	INFORMATIO	25X1 REPORT
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COUNTRY		DATE DISTR. 12 Nov., 1952
SUBJECT	Ordnance Flant no. 525 in Kuybysh	nev-Lezymyanka NO OF PAGES 2
PLACE ACQUIRE	25X1	NO OF ENCLS 6 (13 pages)
DATE OF INFO.	2	SUPPLEMENT TO REPORT NO.
THIS DOCUMENT OF THE UNITED AND 74. OF TH	CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE STATES, WITHIN THE EERBING OF TITLE 10, SECTIOUS 703 TO U.S. CONTROL AS ARKINGDO. HIS TRANSISTION OR REVEL. CONTROL TO OR RECEIPT BY AN URANIMORIZED PERSON OF LAW THE REFERDURE OF THE SECOND CONTROL OF THE SECOND	
ATION OF ITS (THE V. S. CODE, AS AMERICAD. ITS TRANSMISSION OF REVER! ST LAW THE REFERDUCTION OF THIS FORM IS PROHIBITED.	THIS IS UNEVALUATED INFORMATION 25X1
25X1 1 A A A A A A A.	n Moscow which was directed by finise nother source stated that Colone! (An ntil late 19h7, when he was relieved commission, composed of naval office ttached to the plant. In ordnance factory was transferred in the war. The production of new types time the quantity of weapons produced cools and cream separators.	railroad line to the Kuybyshev (53°12°1/50°09°16 he plant was under the supervision of an office ster and Lieutenant General (arty) Ustimov (fnu) rty) Sharskiy (fnu) was manager of the plant d by the former managing engineer of the plant cers, tank officers, and air force officers, was from Tula (54°12°1/37°36°1) to this plant during of weepons started in early 1946 at the same d was decreased in order to produce machine
15 -c nm Th 16 19 20 h- 6-	iters. In the summer of 1948 a month Griven STS Ol-type (sic) shaping mac m, was achieved. The purchase price me monthly production of lead-screw angth of 2.50 peters and a bed length to 30 lathes in late 1948. The dobotic wheels, about 350 mm in diam cylinder Gerkovskiy Avto Zavod (GAZ) cylinder Zavod Imeni Stalina (YIS)	19/9, the nonthly production included about parators with capacities of 10, 20, and 30 ally production of 30 to h0 electrically—chines, with a claning length of 700 to 100 of cach machine allegedly was 90,000 midles. lathes (Leitspindel-Drehbaenken) with a total sh of 1 meter increased from 20 lathes in lay-slift projection of the foundry was about seter, for tanks or tractors. Crankshafts for (Gorkiy autovobile factory) engines and (Stalin Factory) engines were ground in the 500 mm, for tanks or tractors, were maintained production was not known.
	accurate data on the production of	weapons were known
25X1 25X1 pr 25X1 gu	the barrels were for the 12.7-mm DShk ms was observed. One special design	Complete weapons and barrels were shipped, or 12.7-mm or 2 -mm sireraft cannon. The mounted on circular tracks as single or twin
25X1 li	nks for disintegrating lelts and com	cessories in the plant included about 1,000
		e rifles were similar to the Protive-Tarko- fle Simenov) and Protive-Tarkovoye Rushë
	OI ACCITIONTION	

	Degtysrev(PTRD)(Antitank Rifle Degtysrev) models, and
05)/4	have a caliber of 20 mm. The magazines for the AT rifles were
25X1	200 x 30 x 130 mm. The length of the cartridge is 180 mm. The magazine boxes
	made in the plant held five magazines each. In 1947, eighty percent of the
25X1	machine (un barrels produced were said to be faulty. This figure allegedly dropped to 50 percent after the examination by a large commission.
25X1	the percentage of waste was very high.
25/1	The state of the s
25X∜∙	The plant worked three shifts. Moout 1,000 to 1,200 Russians and about 300
	Pis were employed in each the first and second shifts while about 300 Aussians
	and between 30 to 100 PEs worked in the third shift. About 2,000 workers ope-
05.74	rated lethes, milling machines, and boring machines. About 600 were specialists and 150 were unstilled workers. the total number of
25X1	employees to be between 2500 and 3000. Thout 40 percent of the workers were
	women.
6.	Incoming shipments of row material consisted of round steel, square steel,
	hexagonal steel, steel ingots, and sheet steel. One source stated that incoming
	shipments of these naterials has mig iron ingots enounted to about 50 car- loads. A calcad of copper sheets, bress sheets, and brass ingots arrived every
	week. Incoming semi-finished parts included bolt housings for heavy machine
	guns and it rifles, which reportedly came from Tula Gorbiy (5602011/11/00018)
	and hoscow; red-brown plastic butts for T rifles; and crank shafts for motor
	Venicies. Castings for shaping machines came from Tula. Inscriptions written
	by German P's employed in the Ural area indicated that steel and iron shipments
	came from that area. Information concerning the incoming chipments of raw castings for barrels was quite indefinite. these deli-
25X1	veries were discontinued in 1947.
25X1 ₇	
1.	Civilian products and some of the weapons were shipped away by rail.
25X1	truck shipments of crates dispatched by the weapons shipping department.
25X1	the weapons were shipped to Leningrad (59055'L/30°15'E) and Eurmansk (68°58'K/33°05'E), the machine tools went to Mescow and Sverdlovsk
	(5604717/6004/418), and the cream separators went to Gentral Asia and Kazak SSR.
25X1	
25X1 ⁸ *	power was supplied from the Tez Pezymyanka.
	power came from a power plant in Kuybyshev. Meating gas was supplied through a long distance gas line. The plant had a total of 40 to 50 mo-
25X1	tor vehicles.
9.	The plant was guarded by armed civilians. No air raid precoutions were observed.
25X	Comment. For layout sketches of the slant and a series
23X [Comment. For layout sketches of the plant and of the individual sections, see Annexes 1 to 5. For sketches of the various weapons ranufactured at the plant, see
25X1	Affica O. Affica One is passed on I
25X1	taken in 1943.
25/1	Comment. This Ordnance Plant is known from the Soviet press as the machine
	tool plant "Srednevolzhskin" (Central Volga). One Sharskiy (Dnu) was manager of the plant in 1946 and 1947. Press reports indicated that considerably improved lead
	polar latings and Screw culting machines were produced in 1010 and 1010 million
	The value were three three as efficient as the old models. In 1012 some autism
DEV4	machines, running at 010 ners, were twice as afficient to the also terms
25X1	one depotity of the new macrines was three times that of the old once
25X1	the production of weapons in 1948 and 1949 totaled 250 to 300

Attachments: 6

1. Layout sketch of ordnance plant no. 525.
2. orkshop for the production of separators and machine tools.
3. Ordnance workshop.
4. orkshop for the production of tools.
5. Forge and foundry.
6. Sketches of weapons.

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LEGEND	see next page		Attachment 1
	Layout Sketch of	? Ordnance Flout No	525
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		$-\Pi$	3"
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Legend:

- A. Railroad from Kuybyshev to Bezymyanka.
- B. Spur track to the Pezymyanka railroad station.
- G. Ordnance Flant No 525.
 - 1. Carehouse for acid.
 - 2. Ammunition warehouse.
 - 3. Wooden hut housing various workshops.
 - 1. Underground testing range and shipping department.
 - 5. Korpus I. Cream separators and shaping machines were produced here.
 - 6. Central administration building, h stories.
 - 7. Oxygen installation.
 - 8. Korpus II. Ordnance factory.
 - 9. Korpus III. Eachine tool factory shop for the construction of jigs and fixtures, and hardening shop for weapons.
 - 10. Forge and foundry.
 - 11. Werehouse for materials.
 - 12. Fire brigade and garage.
 - 13. Fattern-making workshop.
 - 14. Transformer
 - 15. Peating plant.
 - 16 and 17. Saw mill, carpentery shop and lumber warehouse
 - 18. Warehouse.
- 19. elding shop and was generation plant where bipods and trigger mechanisms for antitank rifles and other small parts are made.

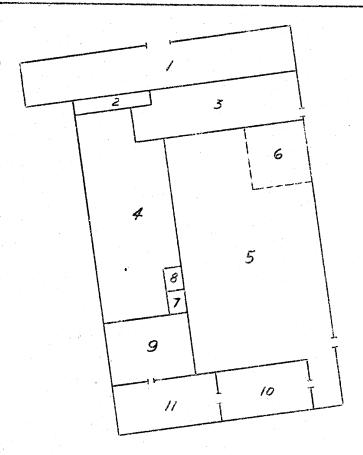
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	Attachment 2

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Workshop for the PRODUCTION

of Separators and Lachine Tools



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- 1. Vain administration building, four stories,
- 2. Sanitary installations.
- 3. Tsekh (shop) 22: Repair section of the plant, equipped with machine tools, work benches, etc.
- h. Froduction and assembly of separators. The equipment consisted of about 60 to 70 machine tools arranged in four rows, including 10 turnet lathes, 5 medium-sized lathes, 12 small lathes, 20 small and medium-sized milling machines, and a number of assembly benches.
- 5. Tsekh 20: for the groduction of shaping machines and lead-screw lathes, equipped with a total of about 100 machine tools, including:
 - I large single-spindle boring machine of Kolb make
 - 1 large single-spindle boring machine of Raboma make
 - 1 medium-sized single-spindle boring machine of Maboua make
 - 1 parallel planing machine, plane length about 3 meters, width about 1 meter, of German make.
 - 2 parallel planing machines, plane length about h meters, width 1.5 meters, of Boeringer make.
 - 1 parallel planing machine, plane Length 5 reters, width 1 meter, of Skoda make.
 - I horizontal boring machine of German make.
 - 1 small borizontal milling machine of Russian make.
 - 1 small vertical milling machine of German make.
 - 1 medium-sixed horizontal boring machine of Mussian make.
 - 1 lathe, center distance about 5 meters, height of centers about 1 meter, of Raboma make.
 - 1 large borizontal boring machine of German make.
 - 1 lathe, center distance about 3 meters, height of centers about 600 mm, of VDF make.
 - 1 small horizontal boring machine of American Karns make. I Work benches with viscs, and assembly pits for mounting the shaping machines.
 - 1 lathe, center distance about 2.5 meters, of Hussian make.
 - 1 lathe, center distance about 1.5 meters, of Russian makes
 - 3 lathes, center distance 1.20 meters, height of centers about 400 mm, of Russian make, Type 200.

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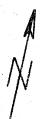
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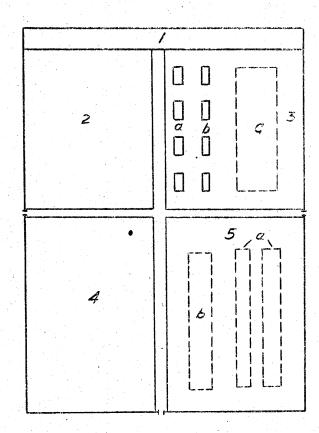
- 10 small lathes, center distance about 1 meter, height of centers about 150 mm, of Russian make.
- 1 lathe, center distance about 2.5 meters, height of centers about 600 mm, of Gustloff make.
- 1 bevel gear milling machine of Russian make.
- I bevel gear milling machine of German make.
- 2 small horizontal milling machines of Russian make.
- 2 small vertical milling machines of Russian make.
- l circular grinding machine of Russian make.
- I surface grinding machine of Russian make.
- 2 lathes, 120 x hO centimeters, of Bussian make.
- 2 small lathes, about 100 x 15 centineters, of Russian make.
- 6. Assembly from for machine tools.
- 7. Spraying shop for cream separators.
- 8. Crankshaft grinding shop with 8 grinding machines.
- 9. Shop for chrome plating cream separators, equipped with 6 electric units.
- 10. Tempering shop for weapons and for components of shaping machines and separators, equipped with 4 electric hardening furnaces and 5 quenching baths.
- 11. Polishing shop for component parts for cream separators.

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Ordnance Workshop 25X1

LEGEND: See next page Attachment 3





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25X1

Attachment 3

- 2 -

Legend:

- 1. Plant kitchen.
- 2. Lathe shop for weapon parts, equipped with 60 to 80 machine tools, most of which were lathes.
- 3. Tsekh 31, punching shop and pressing shop for west on parts, equipped with:
 - a. 3 or h heavy-duty eccentric punching machines.
 - b. h or 5 small eccentric punching machines.
 - c. 15 small punching machines, 4 or 5 circular saws for metal working, 1 automatic punching machine for machine run ammunition belt links, 6 lathes, 6 turning—and-boring mills, several boring machines and grinding machines.
- 4. Ordnance assembly shop with adjusting plant where heavy TO DShK and antitank rifles were seen.
- 5. Lathe shop and slotting shop for barrels.
 - a. Two rows, with a total of about 16 four-spindle horizontal boring machines used for the production of barrels.
 - b. Five or 6 lethes used for outside machining of the barrels and 2 or 3 slotting machines for the simultaneous machining of 10 barrels.

About 800 workers were exployed in this shop.

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O OLAP ADMINISTRACIÓN	

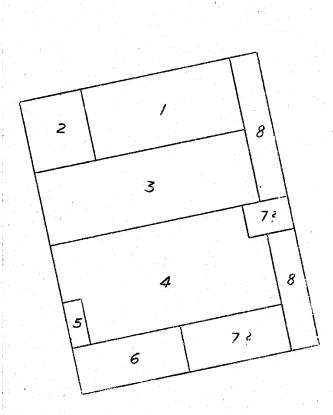
Jorkshop for the Production of Tools

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LEGEND : See next page

Attachment 4





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Attachment 4

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Legend:

- 1. Tsekh 10, where gauges were produced and measuring instruments were repaired.
- 2. Test laboratory for gauges and optical reasuring instruments.
- 3. Tsekh ll, where jigs and fixtures for the production of weepons were constructed, equipped with about 21 different machine tools.
- h_* lechanical section, equipped with about 100 machine tools, used for the production of cutting tools for plant requirements.
- 5. Tool shed.
- 6. Welding shop equipped with 5 electric and 3 acetylene welding machines. The pedestals for twin machine guns were welded here.
- 7. Hardening shop for gauges and cutting tools and also for gun barrels, equipped with 5 or 6 electric annualing furnaces, 2 gas-fired furn ces and several annualing baths.
- 8. Offices and test laboratories.

Between 600 to 700 workers were employed in this shop.

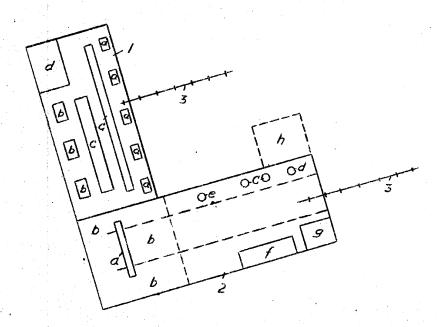
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forge and Foundry

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Aftachment 5

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Legend:

- 1. Forge, equipped with
 - a. 4 or 5 American steam hammers.
 - b. 2 or 3 heavy-duty USA harmers.
 - c. latural gas fired annealing furnaces, one for each hammer.
 - d. Die-making section, There were also several presses for the manufacture of machine gun barrels, boring machines and lathes, and an oil-both hardening installation with gae-fired furnaces.

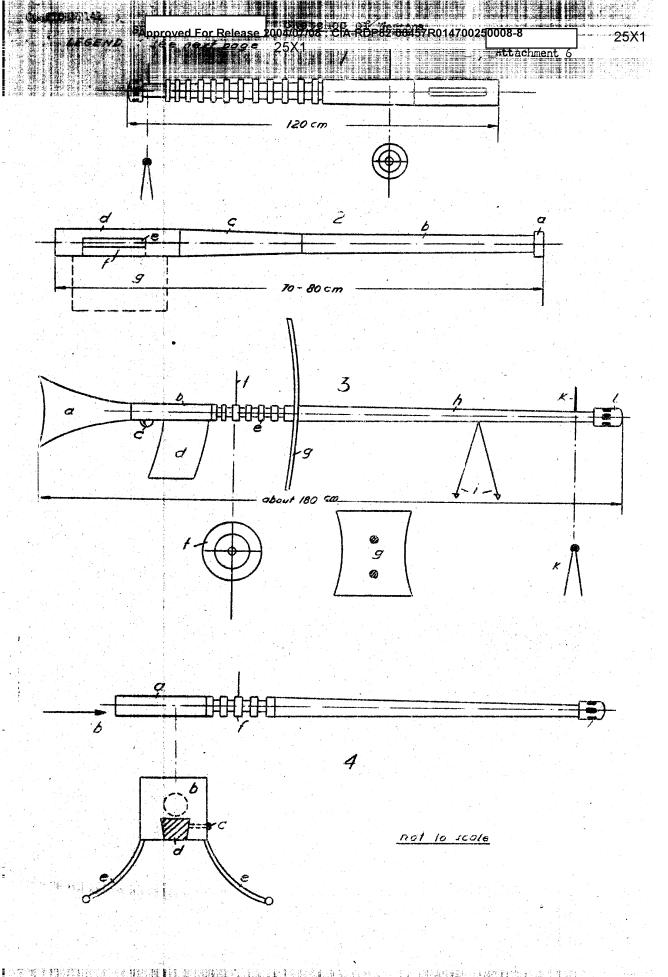
Parrels for thel2.7-mm machine guns were forged in four different dies after being preheated. The time required for each barrel was about 2 minutes. The barrels for antitank rifles required longer processing. They were subjected to 3 annealing operations and then to 5 or 6 blows under the steam hammer in different dies.

- 2. Foundry and molding Shop:
 - a. Traveling crane.
 - b. Holding shop with 2 or 3 molding machines.
 - c. 2 electric steel furnaces with a capacity of 1 to 1.5 tons.
 - d. 1 or 2 cupolas.
 - e. Electric smelting furnace for nonferrous retals.
 - f. 3 mixers for molding sand.
 - g. Casting cleaning shop.
 - h. Unfinished brick building which had no roof. No construction work was noticed although the Russians said the foundry was to be expanded.

In addition to producing castings, the foundry also produced and shipped 10 gear boxes for T-34 tanks during the day-shift and 20 smaller gear boxes, probably for tractors. A Russian expert also manufactured two ship screws per day from time to time.

3. Railroad tracks.

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Legend:

- 1. Barrel, probably for a heavy DShK machine cun.
- 2. Barrel, allegedly of a 12.7-mm or 20-mm sircraft cannon:
 - a. Compensator.
 - b. Smooth cylindrical part of barrel.
 - c. Conical part of barrel.
 - d. Lock mechanism.
 - e. Opening for side belt feed.
 - f. Certridge case ejector.
 - g. Fabric bag for empty cartridge cases about the size of a brief case.
- 3. Sketch of an AT rifle:
 - a. Red-brown plastic butt.
 - b. Closing mechanism with lock.
 - c. Trigger.
 - d. Carthige magazine, 200 x 30 x 130 mm.
 - e. About 7 circular grooves, approximately 7-rm wide.
 - f. Ring sight. Side and front views.
 - g. Protective shield, 5 to 3 mm thick, about 700 mm high, and about 600 mm wide. Side and front views.
 - h. Smooth, conical part of barrel.
 - i. Linged bipod.
 - k. Sighting device, a small round disk with a tiny round hole. Side and front views.
 - 1. Cost iron cylindrical muzzle brake with 4 rectangular perforations.
- 1. A weapon similar to the AT rifle. Side and rear views:
 - a. Cloding mechanism with lock.
 - b. Polt mechanism.
 - c. Side press-button, which operates a spring closure fitted in recess d.
 - d. Filled recess.
 - e. Frackets attached to each side, with small ring welded on the end.
 - f. About 7 circular grooves, 7 nm wide.

The weapons shown in sketches 3 and k are of about 20-mm caliber and have 1dentical barrels and sighting devices.